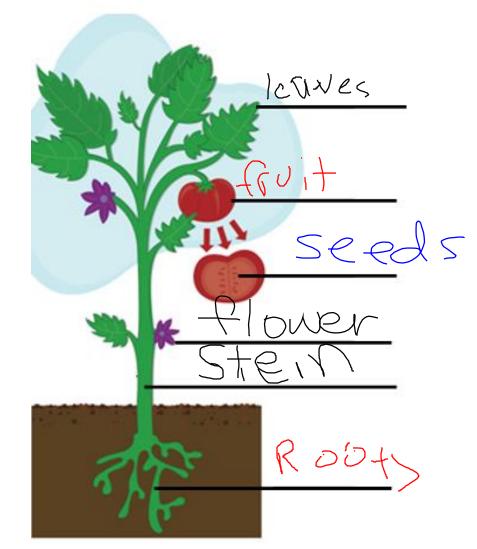
Topic 2: Plants

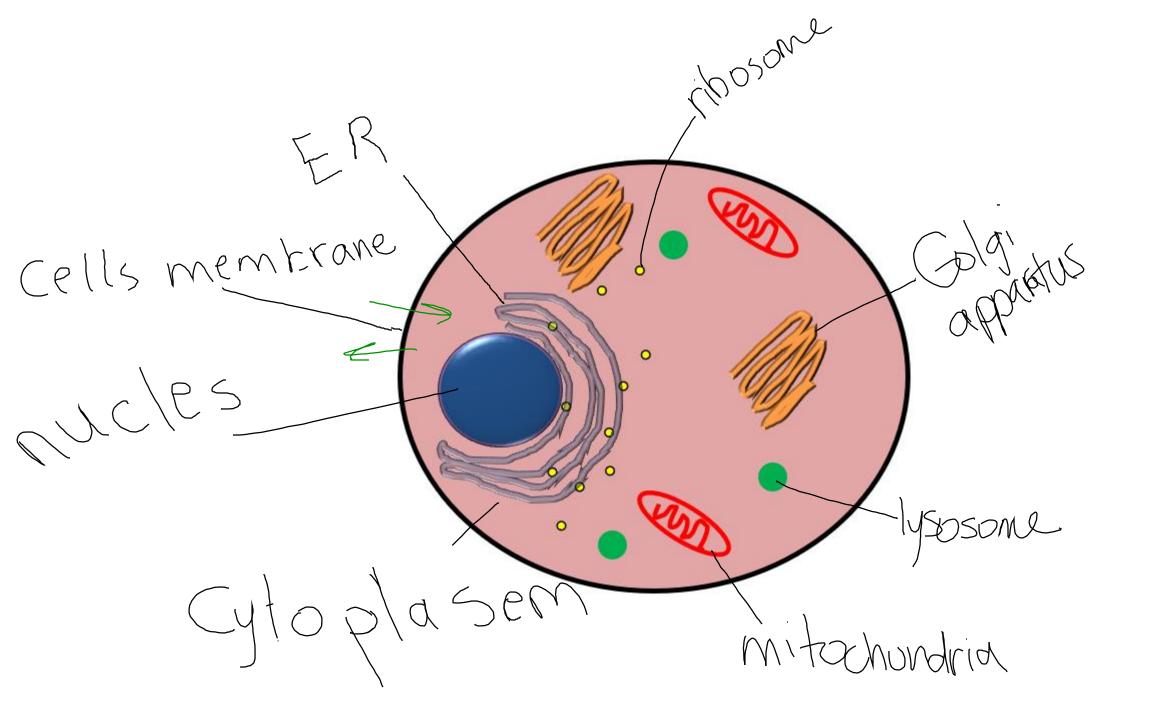
In this lesson you will learn

 \mathbf{D} the names of the different parts of the plants The function of the plant parts the function of the plant parts of the chemistry of how plants make energy the chemistry of how plants make food (glucose) mixing materials together to make new and different materials. Do you know the **names** of any of these plant parts?

Do you know their jobs?

Read to find out more...





(the leaf makes food f lower is For the plant. It also makes oxygen which is makeafruite the gas we breathe. It helps the plant reproduce (mike babies) the stem connects The fruit grows. the leaves and flowers from the flower. The Ho the roots. The fruit is important stem moves water and food around because it holds the seeds. the plant. The stem is like a Roots Feep the plant in the ground, The seed is The (oots They also take important because it nytrients from up water and 15 the life of the soil. Will grow into a new plant when it is put the plants. In the soil

Quiz on Monday

- Cells & Organelles
- Plant parts & functions

Plants and Animals

Plants and animals are the same in some ways. For example, we both:

- grow
- need food
- need energy
- reproduce (make babies)



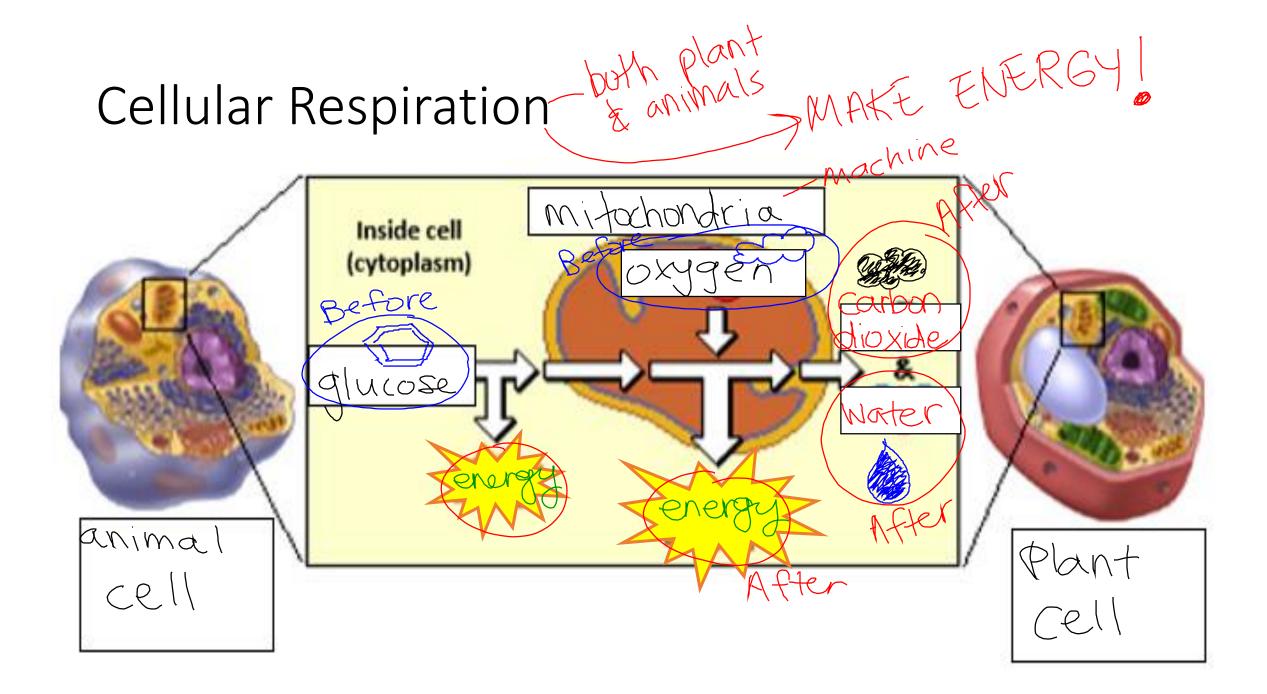
Plants and Animals Make Energy in their Cells

➢ Remember: The organelle responsible for making energy in the cell is called the Mitochondria

> It makes energy for the cell through a chemical process called $\underline{Cellular}$ $\underline{Vespiration}$ (cell breathing)

> The 2 chemicals needed before cellular respiration can start are: 1. <u>OXYGEN-Jas in the air</u> 2. <u>GIUCOSE (specific type</u> of food that Kind of Cells use) Sugar Sugar





Cellular Respiration



> The 3 new chemicals made **after** cellular respiration happens are:

dinxide · carbon er erc > a court see with your eyes.
cellular respiration like this: • We can <u></u> MHochong Carbon dioxide + Water + t Oxygen NCOSE energ

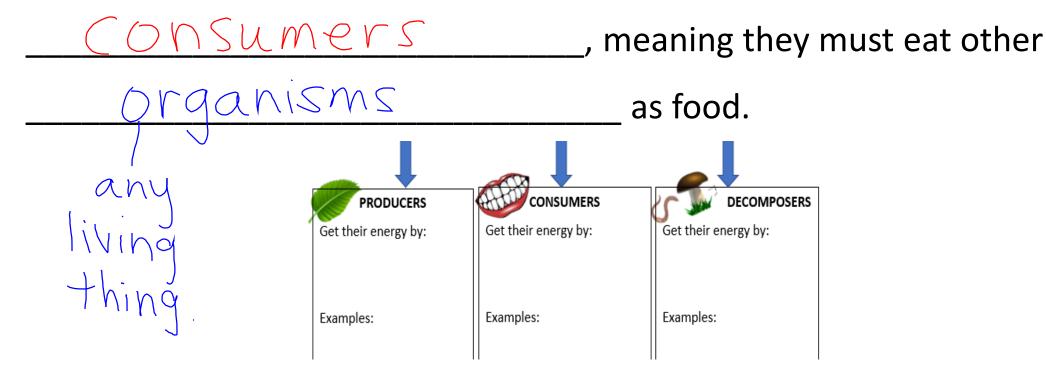
Plants and Animals

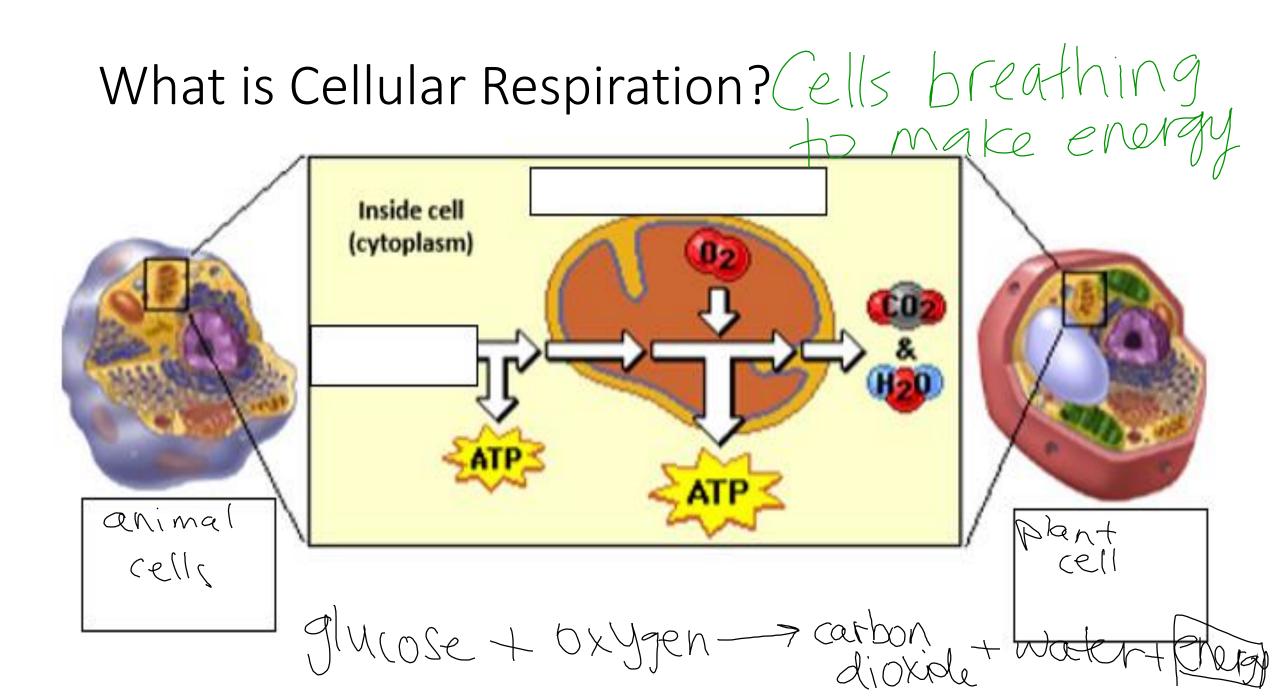


Plants and animals are different in one important way. Plants are

_____, meaning they can make

their own food. Animals can not make their food. They are





Plants Make Food



Remember that the plant part whose job it is to capture light and make food is the |eaves. For both animals and quicose (kind of sugar) plants, the food cells need is called >Plants have a special <u>organelle</u> chloroplast in their cells called a

chloroplast

Plants Make Food

>The chloroplast is special because it can make _

from only 3 things:

- light from the sun-G
- 2.
- Carbon dioxide from the air C 3.

that

intre \succ When the chloroplast plant makes the food, it also makes

 $\frac{\sqrt{9}}{\sqrt{9}}$. This is the same kind of $\frac{\sqrt{9}}{\sqrt{9}}$ we need to breathe.



This process of making glucose from carbon dioxide and water is called <u>photosynthesis</u>. Animals can not do this process because we do not have <u>chloroplasts</u> in our cells.

Photosynthesis Video: https://youtu.be/yHVhM-pLRXk (6 mins)

Cellular Respiration Video: <u>https://youtu.be/7dKpnxEMzyw</u> (stop at 2:37)

